

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

| RD0150 | Overall LMA Rating | Total LMA Miles | * Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A. | | | | | |
|--|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|
| Reclamation District No. 0150 Merrit Island | M * | 17.74 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.06 | | 0.06 | 0.34% | 0.52 | 0.82 | | |
| Trim / Thin Trees | 0.02 | 0.01 | 0.06 | 0.34% | | | | |
| Encroachments | 0.12 | | 0.12 | 0.68% | 0.54 | 0.03 | | |
| Animal Control | 0.01 | 0.01 | 0.05 | 0.28% | | | | |
| Slope Stability | 0.06 | | 0.06 | 0.34% | | | 0.02 | |
| Erosion / Bank Caving | 0.06 | 0.02 | 0.14 | 0.79% | | | 0.05 | 0.02 |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.06% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | 0.05 | | 0.05 | 0.28% | | | 9.39 | |
| DWR UCIP Field Study | | | | | 0.28 | 0.04 | | |
| <i>LMA Totals:</i> | 0.39 | 0.04 | 0.55 | 3.10% * | 1.34 | 0.89 | 9.46 | 0.02 |
| Unit No. 01 Sutter Slough LB | Overall Unit Rating | Total Unit Miles | | | | | | |
| RD0150 | M | 0.52 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Encroachments | 0.01 | | 0.01 | 1.93% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | 0.05 | | 0.05 | 9.63% | | | | |
| <i>Unit Totals:</i> | 0.06 | 0.00 | 0.06 | 11.55% | 0.00 | 0.00 | 0.00 | 0.00 |
| Unit No. 02 Sacramento River RB | Overall Unit Rating | Total Unit Miles | | | | | | |
| RD0150 | A | 7.81 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.02 | | 0.02 | 0.26% | 0.31 | 0.48 | | |
| Encroachments | 0.06 | | 0.06 | 0.77% | 0.11 | 0.02 | | |
| Slope Stability | 0.03 | | 0.03 | 0.38% | | | | |
| Erosion / Bank Caving | 0.02 | | 0.02 | 0.26% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| DWR UCIP Field Study | | | | | 0.17 | 0.02 | | |
| <i>Unit Totals:</i> | 0.13 | 0.00 | 0.13 | 1.66% | 0.59 | 0.52 | 0.00 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

| Unit No. 03 Elk Slough LB | Overall Unit Rating | Total Unit Miles | * Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A. | | | | | |
|---------------------------------------|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|
| RD0150 | M * | 9.41 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| Earthen Levee | | | | | | | | |
| Vegetation | 0.04 | | 0.04 | 0.43% | 0.21 | 0.34 | | |
| Trim / Thin Trees | 0.02 | 0.01 | 0.06 | 0.64% | | | | |
| Encroachments | 0.05 | | 0.05 | 0.53% | 0.43 | 0.01 | | |
| Animal Control | 0.01 | 0.01 | 0.05 | 0.53% | | | | |
| Slope Stability | 0.03 | | 0.03 | 0.32% | | | 0.02 | |
| Erosion / Bank Caving | 0.04 | 0.02 | 0.12 | 1.27% | | | 0.05 | 0.02 |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.11% | | | | |
| Supplemental | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | | | | | | | 9.39 | |
| DWR UCIP Field Study | | | | | 0.11 | 0.02 | | |
| Unit Totals: | 0.20 | 0.04 | 0.36 | 3.82% * | 0.75 | 0.37 | 9.46 | 0.02 |

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| † Overall LMA Rating (Fall Only) | | | M * | |

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

| | |
|---|---|
| † | <p>SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.</p> <p>FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.</p> |
|---|---|

Comments

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| |

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 Sutter Slough | | | Left | 0.52 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | M | |
| Date of Inspection | 3/15/2016 - 3/15/2016 | | 11/1/2016 - 11/1/2016 | |
| DWR Inspector | Pavel Kazi | | Pavel Kazi | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|------|------------|--------------------------|------------|
| Unit No. 01 Sutter Slough | Left | 0.52 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------------------|--------------|------------------------|------------|----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 4 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Operations & Maintenance Manuals | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_RD0150_01_s_2013_4 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| This LMA has the updated O&M manuals for their district. | | | | | |

No Photos

| | | | | | |
|---|--------------------------------|--------------|------------------------|------------|----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 5 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Emergency Supplies & Equipment | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_RD0150_01_s_2013_5 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| This LMA has adequate amount of flood fighting materials in a centralized location. | | | | | |

No Photos

| | | | | | |
|--|-------------------------------|--------------|------------------------|------------|----------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 6 |
| LM End | 0.00 | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | Flood Preparedness & Training | | | ° | ° |
| | | | | ° | ° |
| DWR ID | DWR_RD0150_01_s_2013_6 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| The crew of this LMA had flood fighting training from DWR. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|------|------------|--------------------------|------------|
| Unit No. 01 Sutter Slough | Left | 0.52 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 0.19 | Rating ** | A/W | Issue No. | 3 |
| LM End | 0.19 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.331402 ° | 38.331402 ° |
| | | | | -121.580358 ° | -121.580358 ° |
| DWR ID | DWR_RD0150_01_s_2012_3 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| Elderberry is trimmed and levee slope is accessible. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_15_3_20160823_00003.jpg



View of the elderberry on the landside toe of the levee. The elderberry doesn't block visibility and it is trimmed up 5 feet above the slope.

| | | | | | |
|---|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 2 |
| LM End | 0.49 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.328555 ° | 38.328020 ° |
| | | | | -121.577544 ° | -121.576693 ° |
| DWR ID | DWR_RD0150_01_s_2016_2 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R] | | | | | |

Photo 1 of 2 : FA_2016_RD0150_15_2_20160823_00001.jpg



USACE 2013 Photo #1

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.44 | Rating ** | M | Issue No. | 2 (cont) |
| LM End | 0.49 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2016_RD0150_15_2_20160823_00002.jpg



USACE 2013 Photo #2

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------|------|------------|--------------------------|------------|
| Unit No. 01 Sutter Slough | Left | 0.52 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.49 | Rating ** | M | Issue No. | 7 |
| LM End | 0.49 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.328256 ° | 38.328256 ° |
| | | | | -121.576637 ° | -121.576637 ° |
| DWR ID | DWR_RD0150_01_f _ 2016_7 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_15_7_20161104_00005.jpg



View of debris on the waterside slope of the levee. Fall 2016

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.49 | Rating ** | A | Issue No. | 1 |
| LM End | 0.49 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.328243 ° | 38.328243 ° |
| | | | | -121.576590 ° | -121.576590 ° |
| DWR ID | DWR_RD0150_01_f_2016_1 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Acceptable vegetation | | | | | |

Photo 1 of 1 : FA_2016_RD0150_15_1_20161104_00004.jpg



View of the landside slope of the levee. Fall 2016

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 02 Sacramento River | | | Right | 7.81 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | A | |
| Date of Inspection | 3/15/2016 - 3/15/2016 | | 11/1/2016 - 11/1/2016 | |
| DWR Inspector | Pavel Kazi | | Pavel Kazi | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.23 | Rating ** | M | Issue No. | 1004 |
| LM End | 0.23 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.330888 ° | 38.330888 ° |
| | | | | -121.573769 ° | -121.573769 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:42700 | | | | | |
| DS_ID:22416 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Appears abandoned and if so should be done so properly.- Dense vegetation on waterside.- Seems abandoned pipe and pump. | | | | | |
| FIELD_STRUCT_DESC: Abandoned 10-inch steel pipe through the levee, 2.8 feet below the crown. Pump on landside. Concrete box on landside. O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/27/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_42700_34247.jpg



WS view: No pipe found on waterside slope. Dense vegetation on waterside.

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 0.23 | Rating ** | M | Issue No. | 1004 (cont) |
| LM End | 0.23 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : UCIP_FA_2016_42700_34246.jpg



LS view: abandoned pipe and pump on landside toe.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Levee Inspection Report By Mile - Fall 2016


| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

Photo 1 of 1 : FA_2016_RD0150_16_4_20160823_00001.jpg



Landscaping on landward slope of the levee.


Photo 1 of 1 : FA_2016_RD0150_16_9_20160823_00006.jpg



11/29/2011

Fence was found on the landside of the levee looking upstream.

Photo 1 of 2 : FA_2016_RD0150_16_6_20161104_00118.jpg



Updated view of the slope instability on the waterside of the levee. Fall 2016.

Thursday, December 08, 2016 11:18 **FINAL DATA** Page 3 of 50

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|--|------------------------|--------------|----|------------------------|----------|---------------|
| LM Start | 0.38 | Rating ** | M | Issue No. | 6 (cont) | |
| LM End | 0.38 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.332598 ° | | 38.332598 ° |
| | | | | -121.572179 ° | | -121.572179 ° |
| DWR ID | DWR_RD0150_02_s_2012_6 | | | | | |
| Comment Code | | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : FA_2016_RD0150_16_6_20160823_00003.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.38 | Rating ** | M | Issue No. | 13 |
| LM End | 0.38 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.332647 ° | 38.332647 ° |
| | | | | -121.572140 ° | -121.572140 ° |
| DWR ID | DWR_RD0150_02_s_2012_13 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_13_20160823_00009.jpg



A stairway was found on the waterside of the levee. The picture was taken from the crown looking upstream.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.39 | Rating ** | M | Issue No. | 1000 |
| LM End | 0.39 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.332670 ° | 38.332670 ° |
| | | | | -121.572132 ° | -121.572132 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20268 | | | | | |
| DS_ID:22417 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - Water leaks from pressure breaker.- Distribution box at the landward toe not found/visible.- Service pole on LS toe. | | | | | |
| FIELD_STRUCT_DESC: 4-inch steel pipe joined to 6-inch steel pipe and the 6-inch ppipe joined to 10-inch steel pipe through the levee, 5.8 feet below the crown. 1.5-inch conduit through the levee, 3 feet below the crown. Pump and gate valve on the waterward slope. (Runyon). | | | | | |
| FS Date: 8/27/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 0.39 | Rating ** | M | Issue No. | 1000 (cont) |
| LM End | 0.39 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_20268_34244.jpg



WS view: walkway/stairs, pump on levee slope.

Photo 2 of 2 : UCIP_FA_2016_20268_34243.jpg



WS view: pump, electric control box, electric conduit on concrete pad.
Water leaks from pressure breaker.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 999 |
| LM End | 0.46 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.333527 ° | 38.333527 ° |
| | | | | -121.571274 ° | -121.571274 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20267 | | | | | |
| DS_ID:22418 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - Abandoned pipe and pump.- Needs proper abandonment. | | | | | |
| FIELD_STRUCT_DESC: 6-inch steel pipe and 1-inch conduit through the levee, 3.5 feet below crown, pump and gate valve on the waterward slope. Electric box on waterside slope. O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/27/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.46 | Rating ** | M | Issue No. | 999 (cont) |
| LM End | 0.46 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_20267_34239.jpg



WS view: steel pipe and pump on levee slope. Dense vegetation on waterside.

Photo 2 of 2 : UCIP_FA_2016_20267_34238.jpg



WS view: steel pipe and pump on concrete pad. Seems abandoned.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.48 | Rating ** | M | Issue No. | 1001 |
| LM End | 0.48 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.333754 ° | 38.333754 ° |
| | | | | -121.571018 ° | -121.571018 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20284 DS_ID:22419 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Needs proper abandonment. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee, 5.7 feet below the crown. Power line on landside.(Mrs. J. Olson) O&M Manual SAC 112, March 1957. FS Date: 8/27/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_20284_34265.jpg



WS view: abandoned pump on levee slope. Dense vegetation on waterside.

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 0.48 | Rating ** | M | Issue No. | 1001 (cont) |
| LM End | 0.48 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : UCIP_FA_2016_20284_34264.jpg



LS view: exposed steel pipe and power pole on levee toe.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.53 | Rating ** | N | Issue No. | 66 |
| LM End | 0.53 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.334318 ° | 38.334318 ° |
| | | | | -121.570349 ° | -121.570349 ° |
| DWR ID | DWR_RD0150_02_f_2016_66 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.56 | Rating ** | M | Issue No. | 57 |
| LM End | 0.56 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.334525 ° | 38.334525 ° |
| | | | | -121.570025 ° | -121.570025 ° |
| DWR ID | DWR_RD0150_02_s_2016_57 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_57_20160823_00032.jpg



View of tree stumps on the waterside shoulder of the levee looking downstream.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.70 | Rating ** | M | Issue No. | 1002 |
| LM End | 0.70 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.336183 ° | 38.336183 ° |
| | | | | -121.568383 ° | -121.568383 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:20303
DS_ID:22421
EP_NO: 16109
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - 10" steel pipe on both sides of the levee. According to permit and inspectors note- 16" steel pipe through the levee.- concrete standpipe inside water filtration plant on landside toe.- air pressure tank on waterside steel deck.
FIELD_STRUCT_DESC: 16 inch steel pipe and 2-inch conduit through the levee, 6.2 feet below the crown, slant pump on steel platform on the waterward slope. 4-inch abandoned pipe on the waterside slope. Concrete stand pipe and power pole at landside toe. (App. No. 18258, Wilson 2007) O&M Manual SAC 112, March 1957.
FS Date: 8/27/2013

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 0.70 | Rating ** | M | Issue No. | 1002 (cont) |
| LM End | 0.70 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_20303_34287.jpg



WS view: slant pump on steel deck, 4-inch pipe (left) and 10-inch pipe (right) on levee slope.

Photo 2 of 2 : UCIP_FA_2016_20303_34286.jpg



WS view: steel pipes and leaky slant pump on steel deck.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.71 | Rating ** | M | Issue No. | 10 |
| LM End | 0.71 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.336228 ° | 38.336228 ° |
| | | | | -121.568332 ° | -121.568332 ° |
| DWR ID | DWR_RD0150_02_s_2013_10 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_10_20160823_00007.jpg



Debris was found on the waterside slope of the levee looking downstream during Spring 2013 inspection.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.71 | Rating ** | M | Issue No. | 59 |
| LM End | 0.71 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.336291 ° | 38.336291 ° |
| | | | | -121.568260 ° | -121.568260 ° |
| DWR ID | DWR_RD0150_02_s_2016_59 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Damaged tree roots and trunks appear to damage landside slope of the levee. | | | | | |

Photo 1 of 2 : FA_2016_RD0150_16_59_20161104_00117.jpg



Updated picture of the tree limbs and roots on the landside of the levee looking downstream. Fall 2016

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|---|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 0.71 | Rating ** | M | Issue No. | 59 (cont) | |
| LM End | 0.71 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Encroachments | | | 38.336291 ° | | 38.336291 ° |
| | | | | -121.568260 ° | | -121.568260 ° |
| DWR ID | DWR_RD0150_02_s_2016_59 | | | | | |
| Comment Code | | | | | | |
| TR : Tree or limb | | | | | | |
| Inspector Comment | | | | | | |
| Damaged tree roots and trunks appear to damage landside slope of the levee. | | | | | | |

Photo 2 of 2 : FA_2016_RD0150_16_59_20160823_00034.jpg



View of tree trunks and roots on the landside of the levee looking upstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.97 | Rating ** | M | Issue No. | 12 |
| LM End | 0.97 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.339035 ° | 38.339035 ° |
| | | | | -121.565145 ° | -121.565145 ° |
| DWR ID | DWR_RD0150_02_s_2012_12 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_12_20160823_00008.jpg



Overgrown trees were obstructing the landside slope of the levee looking upstream.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|-------------------|------------------------|--------------|----|------------------------|----|---------------|
| LM Start | 1.14 | Rating ** | N | Issue No. | 8 | |
| LM End | 1.14 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Trim / Thin Trees | | | 38.340864 ° | | 38.340864 ° |
| | | | | -121.562915 ° | | -121.562915 ° |
| DWR ID | DWR_RD0150_02_s_2012_8 | | | | | |
| Comment Code | | | | | | |
| T5 : Tree stumps. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_8_20160823_00005.jpg



View of a tree stump on the landward slope.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.26 | Rating ** | M | Issue No. | 92 |
| LM End | 1.26 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.342229 ° | 38.342229 ° |
| | | | | -121.561694 ° | -121.561694 ° |
| DWR ID | DWR_RD0150_02_s_2012_92 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.32 | Rating ** | U | Issue No. | 91 |
| LM End | 1.34 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.342969 ° | 38.343252 ° |
| | | | | -121.561196 ° | -121.560794 ° |
| DWR ID | DWR_RD0150_02_s_ 2012_91 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_16_91_20160823_00047.jpg



Landscaping was obstructing the view of the landside slope of the levee looking downstream. This picture was taken during spring 2013 inspection.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.32 | Rating ** | U | Issue No. | 91 (cont) |
| LM End | 1.34 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2016_RD0150_16_91_20160823_00048.jpg



Landscaping was found landside of the levee looking upstream.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

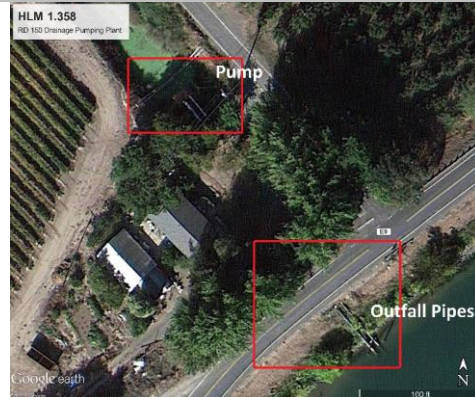
Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.34 | Rating ** | M | Issue No. | 996 |
| LM End | 1.34 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.343136 ° | 38.343136 ° |
| | | | | -121.560868 ° | -121.560868 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20727 DS_ID:22393 EP_NO: 18221 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump house and drainage ditch about 250 feet from the levee on landside.Pumps on piling structure with shed in drainage ditch.Siphon breaker cover missing. Needs to fix it. FIELD_STRUCT_DESC: 1 of 2: 30-inch pipe (of 30-inch and 24-inch steel pipes), 7.0 feet below the crown replaced 36-inch and 24-inch pipes through the levee, 9.0 and 8.0 feet below the crown respectively. Flap gates on the waterward ends. Siphon breakers on the waterward slope. Pumps on piling structure with shed in drainage ditch. (App. No. 18221 - R.D. No. 150 drainage plant). O&M Manual SAC 112, March 1957. FS Date: 8/27/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.34 | Rating ** | M | Issue No. | 996 (cont) |
| LM End | 1.34 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_20727_34889.jpg



Bird's eye view: outfall pipes (bottom) and pump structure in drainage ditch (top)

Photo 2 of 2 : UCIP_FA_2016_20727_34888.jpg



WS view: siphon breaker in pipe riser on levee shoulder.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

A pipe was found on the waterside toe of the levee looking upstream.

Page 15 of 50

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.91 | Rating ** | M | Issue No. | 994 |
| LM End | 1.91 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.346448 ° | 38.346448 ° |
| | | | | -121.551293 ° | -121.551293 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20348 | | | | | |
| DS_ID:22395 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - Operating during inspection.- Overhead powerline crossing- CMP riser with siphon breaker needs cleaning. | | | | | |
| FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on the piling in the stream. Power poles on both slopes. Ramp on the landward slope. Siphon breaker on the landward shoulder. (T. Wilson). O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/27/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_20348_34371.jpg



WS view: service pole, pipe & pump on piling structure in the stream.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.91 | Rating ** | M | Issue No. | 994 (cont) |
| LM End | 1.91 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : UCIP_FA_2016_20348_34370.jpg



WS view: pipe & pump on piling structure in the stream.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.10 | Rating ** | M | Issue No. | 63 |
| LM End | 2.10 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.347002 ° | 38.347002 ° |
| | | | | -121.547803 ° | -121.547803 ° |
| DWR ID | DWR_RD0150_02_f_2016_63 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_63_20161104_00116.jpg



View of prunings on landside shoulder of the levee. Fall 2016

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.14 | Rating ** | M | Issue No. | 997 |
| LM End | 2.14 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.347032 ° | 38.347032 ° |
| | | | | -121.547159 ° | -121.547159 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20731 | | | | | |
| DS_ID:22396 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - Operating during inspection. Leaky join at the concrete box.- Power overhead crossing. Power pole at waterside shoulder, and landside toe. | | | | | |
| FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 5.0 feet below the crown, slant pump on the waterward slope. Power pole on the waterward shoulder. (Wilcox) O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/27/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_20731_34902.jpg




WS view: slant pump on steel frame support and exposed pipe on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Levee Inspection Report By Mile - Fall 2016


| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

Photo 2 of 2 : UCIP_FA_2016_20731_34901.jpg



LS view: concrete distribution box on levee toe and exposed steel pipe on levee slope.

Photo 1 of 1 : FA_2016_RD0150_16_88_20160823_00046.jpg



Landscaping was found on the landside of the levee. The picture was taken from the crown looking upstream.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.70 | Rating ** | C | Issue No. | 23 |
| LM End | 2.70 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.349542 ° | 38.349542 ° |
| | | | | -121.537451 ° | -121.537451 ° |
| DWR ID | DWR_RD0150_02_s_2012_23 | | | | |
| Comment Code | | | | | |
| TA : Tank | | | | | |
| Inspector Comment | | | | | |
| Tank was found within the 10 feet landside easement. | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.75 | Rating ** | N | Issue No. | 14 |
| LM End | 2.75 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.350041 ° | 38.350041 ° |
| | | | | -121.536853 ° | -121.536853 ° |
| DWR ID | DWR_RD0150_02_s_2012_14 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_14_20160823_00010.jpg



View of a tree stump on the landward slope.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.97 | Rating ** | U | Issue No. | 85 |
| LM End | 3.01 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.352372 ° | 38.352802 ° |
| | | | | -121.534127 ° | -121.533638 ° |
| DWR ID | DWR_RD0150_02_s_2012_85 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_85_20160823_00045.jpg



Landscaping providing a screen for a residence on the landside of levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.24 | Rating ** | M | Issue No. | 961 |
| LM End | 3.24 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.355321 ° | 38.355321 ° |
| | | | | -121.530902 ° | -121.530902 ° |
| DWR ID | DWR_RD0150_02_s_ 2012_961 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed. | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.24 | Rating ** | M | Issue No. | 961 (cont) |
| LM End | 3.24 | Issue Type + | Ma | Location * | WS |

Photo 1 of 5 : FA_2016_RD0150_16_961_20160823_00050.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

Photo 2 of 5 : FA_2016_RD0150_16_961_20160823_00051.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|--|---------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 3.24 | Rating ** | M | Issue No. | 961 (cont) | |
| LM End | 3.24 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.355321 ° | | 38.355321 ° |
| | | | | -121.530902 ° | | -121.530902 ° |
| DWR ID | DWR_RD0150_02_s_ 2012_961 | | | | | |
| Comment Code | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | |
| Inspector Comment | | | | | | |
| Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed. | | | | | | |

Photo 3 of 5 : FA_2016_RD0150_16_961_20160823_00052.jpg



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.24 | Rating ** | M | Issue No. | 961 (cont) |
| LM End | 3.24 | Issue Type + | Ma | Location * | WS |

Photo 4 of 5 : FA_2016_RD0150_16_961_20160823_00053.jpg




View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

Photo 5 of 5 : FA_2016_RD0150_16_961_20160823_00054.jpg



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

Photo 1 of 2 : UCIP_FA_2016_20736_34917.jpg



WS view: pipe, conduit and pump on levee slope.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.24 | Rating ** | M | Issue No. | 998 (cont) |
| LM End | 3.24 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.355360 ° | 38.355360 ° |
| | | | | -121.530838 ° | -121.530838 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20736 DS_ID:22402 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 10" steel pipe sleeved through 12" steel pipe.- main pipe bifurcates into two pipes on LS slope and connected to standpipe and concrete box.- 2" electric conduit on WS and power pole on LS.- needs filling into gap between 10" and 12" steel pipes on LS. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.0 feet below the crown; pump on piling in stream. Concrete standpipe and concrete distribution box at the toe of the landward slope. (A. Green) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

Photo 2 of 2 : UCIP_FA_2016_20736_34916.jpg



WS view: steel pipe and GI conduit on levee slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.30 | Rating ** | M | Issue No. | 17 |
| LM End | 3.30 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.355979 ° | 38.355979 ° |
| | | | | -121.530288 ° | -121.530288 ° |
| DWR ID | DWR_RD0150_02_s_2012_17 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| Elderberry is partially blocking the visibility. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.50 | Rating ** | M | Issue No. | 992 |
| LM End | 3.50 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.358094 ° | 38.358094 ° |
| | | | | -121.527619 ° | -121.527619 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:19846 DS_ID:22403 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 8" pvc pipe sleeved into 12" steel pipe.- needs filling/grouting in gas between 8" pvc pipe and 12" steel pipe on WS.- 1.5" electric conduit on WS- 10" steel pipe extended to 8" pvc pipe on landside levee toe. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 3.0 feet below the crown, pump and gate valve on the waterward slope. (R & J Pylman). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_19846_33727.jpg



WS view: pipe, pump, and conduit on levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.50 | Rating ** | M | Issue No. | 992 (cont) |
| LM End | 3.50 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : UCIP_FA_2016_19846_33726.jpg



WS view: steel conduit (right); 8" pvc pipe sleeved into 12" steel pipe.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.51 | Rating ** | M | Issue No. | 993 |
| LM End | 3.51 | Issue Type + | En | Location * | CR |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.358131 ° | 38.358131 ° |
| | | | | -121.527540 ° | -121.527540 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:19848
DS_ID:22404
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - needs proper abandonment.
FIELD_STRUCT_DESC: *ABANDONED* 4-inch steel pipe on landward slope. 1-inch steel conduit on waterward slope found.
FS Date: 8/30/2013

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.51 | Rating ** | M | Issue No. | 993 (cont) |
| LM End | 3.51 | Issue Type + | En | Location * | CR |

Photo 1 of 2 : UCIP_FA_2016_19848_33734.jpg



WS view: abandoned 1-inch conduit on levee slope.

Photo 2 of 2 : UCIP_FA_2016_19848_33733.jpg



LS view: exposed 4-inch steel pipe on levee slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.54 | Rating ** | U | Issue No. | 82 |
| LM End | 3.67 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.358565 ° | 38.359729 ° |
| | | | | -121.527153 ° | -121.525345 ° |
| DWR ID | DWR_RD0150_02_s_2012_82 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_82_20160823_00044.jpg



Landscaping was blocking the visibility on the landside of the levee looking upstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.84 | Rating ** | U | Issue No. | 80 |
| LM End | 3.86 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.361419 ° | 38.361752 ° |
| | | | | -121.523225 ° | -121.522974 ° |
| DWR ID | DWR_RD0150_02_s_2012_80 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_80_20160823_00043.jpg



Landscaping in front of a residence on landside of levee from LM 3.90 to LM 3.93. The levee in this location is greater than 100' wide.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

Photo 1 of 1 : FA_2016_RD0150_16_33_20160823_00020.jpg



A photograph showing a metal stairway with a white railing on a grassy slope leading down to a body of water. A large tree is on the left, and a brown barrel and blue bag are on the stairs.

A stairway was found on the waterside slope of the levee.

Photo 1 of 1 : FA_2016_RD0150_16_61_20160823_00036.jpg



03/15/2016

View of prunings on the landside of the levee.

Photo 1 of 1 : FA_2016_RD0150_16_20_20160823_00013.jpg



View of a retaining wall on the landward slope looking upstream.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.10 | Rating ** | M | Issue No. | 953 |
| LM End | 4.10 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.365162 ° | 38.365162 ° |
| | | | | -121.522365 ° | -121.522365 ° |
| DWR ID | DWR_RD0150_02_s_2012_953 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_953_20160823_00049.jpg



View of cacti on the landside of the levee looking from the crown.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.17 | Rating ** | M | Issue No. | 1005 |
| LM End | 4.17 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.366149 ° | 38.366149 ° |
| | | | | -121.522352 ° | -121.522352 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:42702 DS_ID:22407 EP_NO: 13505 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 5.0 feet below the crown; slanted pump on the waterside slope. Siphon breaker in the waterside slope in corrugated metal pipe riser. A control box and electric conduit on waterside slope. (Permit No. 13505 - Clara Herrerin). O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_42702_33782.jpg



WS view: slanted pump on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|-------------|---------------|
| LM Start | 4.17 | Rating ** | M | Issue No. | 1005 (cont) | |
| LM End | 4.17 | Issue Type + | En | Location * | LS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | DWR UCIP Field Study | | | 38.366149 ° | | 38.366149 ° |
| | | | | -121.522352 ° | | -121.522352 ° |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:42702 | | | | | | |
| DS_ID:22407 | | | | | | |
| EP_NO: 13505 | | | | | | |
| Repair Type: Non-Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: Appears abandoned and if so should be done so properly.- no pipe and structure found on landside.- siphon breaker in 24" CMP riser on waterside.- control box and electric conduit on waterside slope. | | | | | | |
| FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 5.0 feet below the crown; slanted pump on the waterside slope. Siphon breaker in the waterside slope in corrugated metal pipe riser. A control box and electric conduit on waterside slope. (Permit No. 13505 - Clara Herring). O&M Manual SAC 112, March 1957. | | | | | | |
| FS Date: 8/30/2013 | | | | | | |

Photo 2 of 2 : UCIP_FA_2016_42702_33781.jpg



WS view: exposed 14-inch steel pipe on levee slope.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.26 | Rating ** | U | Issue No. | 24 |
| LM End | 4.28 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.367442 ° | 38.367740 ° |
| | | | | -121.522427 ° | -121.522495 ° |
| DWR ID | DWR_RD0150_02_s_2012_24 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_24_20160823_00015.jpg



Landscaping (Oleander) on landward slope from 4.33 to 4.35

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.30 | Rating ** | U | Issue No. | 79 |
| LM End | 4.34 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.368036 ° | 38.368540 ° |
| | | | | -121.522611 ° | -121.522729 ° |
| DWR ID | DWR_RD0150_02_s_2012_79 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_79_20160823_00042.jpg



Trees were obstructing the views on the landside slope of the levee looking downstream.

| | | | | | |
|---|----------------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.50 | Rating ** | A/W | Issue No. | 1 |
| LM End | 4.57 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.370928 ° | 38.371909 ° |
| | | | | -121.523069 ° | -121.523316 ° |
| DWR ID | DWR_RD0150_02_s_2016_1 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion. 2015: No observed changes. [2015 Site ID: SAC_38-5_R] | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.69 | Rating ** | M | Issue No. | 28 |
| LM End | 4.69 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.373485 ° | 38.373485 ° |
| | | | | -121.523963 ° | -121.523963 ° |
| DWR ID | DWR_RD0150_02_s_2012_28 | | | | |
| Comment Code | | | | | |
| V2 : Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_28_20160823_00017.jpg



Century plant on waterward slope at LM 4.76

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.70 | Rating ** | U | Issue No. | 76 |
| LM End | 4.72 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.373688 ° | 38.373970 ° |
| | | | | -121.524280 ° | -121.524403 ° |
| DWR ID | DWR_RD0150_02_s_2012_76 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_76_20160823_00041.jpg



Trees were obstructing the view of the landside slope of the levee looking upstream.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.85 | Rating ** | M | Issue No. | 69 |
| LM End | 4.85 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.375731 ° | 38.375731 ° |
| | | | | -121.525245 ° | -121.525245 ° |
| DWR ID | DWR_RD0150_02_f_2013_69 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| The pipe cover is not a water tight connection. During high water, water may leak through the pipe and get into the landside. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_69_20160823_00039.jpg



The pipe cover doesn't appear to be water tight on the waterside slope of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2013 inspection.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|----------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.06 | Rating ** | A/W | Issue No. | 40 |
| LM End | 7.81 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.378674 ° | 38.414029 ° |
| | | | | -121.525423 ° | -121.522991 ° |
| DWR ID | DWR_RD0150_02_s_2012_40 | | | | |
| Comment Code | | | | | |
| V8 : Environmental Requirements. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.06 | Rating ** | M | Issue No. | 30 |
| LM End | 5.09 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.378715 ° | 38.379052 ° |
| | | | | -121.525458 ° | -121.525341 ° |
| DWR ID | DWR_RD0150_02_s_2012_30 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_30_20160823_00018.jpg



Landscaping was found on the landside shoulder of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.09 | Rating ** | M | Issue No. | 75 |
| LM End | 5.14 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.379054 ° | 38.379769 ° |
| | | | | -121.525341 ° | -121.525024 ° |
| DWR ID | DWR_RD0150_02_s_2012_75 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_75_20160823_00040.jpg



View of landscaping along the landward shoulder and slope looking downstream.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 5.24 | Rating ** | M | Issue No. | 991 |
| LM End | 5.24 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.381079 ° | 38.381079 ° |
| | | | | -121.524166 ° | -121.524166 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch pipe and 2-inch electric conduit through the levee, 3.0 feet below the crown. Service pole and standpipe at the toe of the landward slope. (C. Sakai) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_20740_34941.jpg



WS view: pipe, walkway, slant pump & pump platform on stream bank.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 5.24 | Rating ** | M | Issue No. | 991 (cont) |
| LM End | 5.24 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.381079 ° | 38.381079 ° |
| | | | | -121.524166 ° | -121.524166 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20740 DS_ID:22410 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - 2" electric conduit and gate valve on WS.- abandoned old pump not removed from WS- working during field survey FIELD_STRUCT_DESC: 12-inch pipe and 2-inch electric conduit through the levee, 3.0 feet below the crown. Service pole and standpipe at the toe of the landward slope. (C. Sakai) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

WS view: pipe, slant pump & pump platform on stream bank.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.24 | Rating ** | M | Issue No. | 975 |
| LM End | 5.24 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.381126 ° | 38.381126 ° |
| | | | | -121.524207 ° | -121.524207 ° |
| DWR ID | DWR_RD0150_02_s_2013_975 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| Depression in the waterward slope at the shoulder over an irrigation pipe. | | | | | |

A photograph showing a steep, eroded bank along a road. The bank is covered in dry, brown vegetation and some green weeds. A large tree stands on the left, and a road sign is visible on the right.

View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | | |
|--|--------------------------|--------------|----|------------------------|------------|---------------|
| LM Start | 5.24 | Rating ** | M | Issue No. | 975 (cont) | |
| LM End | 5.24 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.381126 ° | | 38.381126 ° |
| | | | | -121.524207 ° | | -121.524207 ° |
| DWR ID | DWR_RD0150_02_s_2013_975 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| Depression in the waterward slope at the shoulder over an irrigation pipe. | | | | | | |

Photo 2 of 2 : FA_2016_RD0150_16_975_20160823_00056.jpg



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.33 | Rating ** | M | Issue No. | 54 |
| LM End | 5.33 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.382072 ° | 38.382072 ° |
| | | | | -121.523220 ° | -121.523220 ° |
| DWR ID | DWR_RD0150_02_f_2014_54 | | | | |
| Comment Code | | | | | |
| S2 : Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_54_20160823_00029.jpg



View of a slope instability on the waterside of the levee looking towards the toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|---------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.39 | Rating ** | M | Issue No. | 74 |
| LM End | 5.40 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.382675 ° | 38.382793 ° |
| | | | | -121.522367 ° | -121.522164 ° |
| DWR ID | DWR_RD0150_02_s _2012_74 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

| | | | | | | | | | | |
|-------------------|---------------------------|--------------|----|------------------------|---------------|--|--|--|--|--|
| LM Start | 5.69 | Rating ** | M | Issue No. | 62 | | | | | |
| LM End | 5.69 | Issue Type + | Ma | Location * | LS | | | | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | | | | |
| | | | | Start | End | | | | | |
| Item | Encroachments | | | 38.385329 ° | 38.385329 ° | | | | | |
| | | | | -121.518024 ° | -121.518024 ° | | | | | |
| DWR ID | DWR_RD0150_02_f _ 2016_62 | | | | | | | | | |
| Comment Code | | | | | | | | | | |
| DE : Debris | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | |
| | | | | | | | | | | |

A photograph of a paved road with a double yellow line, bordered by trees and a grassy area. A date stamp '11/01/2016' is visible in the bottom right corner.

| | | | | | | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|--|--|--|--|--|
| LM Start | 5.90 | Rating ** | M | Issue No. | 52 | | | | | |
| LM End | 5.90 | Issue Type + | Ma | Location * | LS | | | | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | | | | |
| | | | | Start | End | | | | | |
| Item | Erosion / Bank Caving | | | 38.387915 ° | 38.387915 ° | | | | | |
| | | | | -121.516002 ° | -121.516002 ° | | | | | |
| DWR ID | DWR_RD0150_02_f _ 2016_52 | | | | | | | | | |
| Comment Code | | | | | | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | |
| Erosion due to runoff. | | | | | | | | | | |

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.13 | Rating ** | M | Issue No. | 995 |
| LM End | 6.13 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.391099 ° | 38.391099 ° |
| | | | | -121.514913 ° | -121.514913 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:20748 DS_ID:22412 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - slope erosion due leaky siphon breaker at CMP riser- leaky pipe and pump- service pole on LS- 2" electric conduit on WS FIELD_STRUCT_DESC: 10-inch steel pipe and an electric conduit through the levee, 4.8 feet below the crown. Slant pump on the waterward slope. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Slope erosion on landside of levee at siphon breaker. (Ed. Boyles) O&M Manual SAC 112, March 1957. FS Date: 8/30/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 6.13 | Rating ** | M | Issue No. | 995 (cont) |
| LM End | 6.13 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_20748_34967.jpg



WS view: steel pipe and slant pump on levee slope.

Photo 2 of 2 : UCIP_FA_2016_20748_34966.jpg



WS view: leaky steel pipe and slant pump on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|--------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.30 | Rating ** | M | Issue No. | 27 |
| LM End | 6.30 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.393655 ° | 38.393655 ° |
| | | | | -121.514654 ° | -121.514654 ° |
| DWR ID | DWR_RD0150_02_s_2012_27 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Century plant on the landward slope. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_27_20160823_00016.jpg



Century plant was found on the landside of the levee looking upstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.32 | Rating ** | M | Issue No. | 29 |
| LM End | 6.32 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.393850 ° | 38.393850 ° |
| | | | | -121.514629 ° | -121.514629 ° |
| DWR ID | DWR_RD0150_02_s_2012_29 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.36 | Rating ** | U | Issue No. | 31 |
| LM End | 6.36 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.394416 ° | 38.394416 ° |
| | | | | -121.514590 ° | -121.514590 ° |
| DWR ID | DWR_RD0150_02_s_2012_31 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_31_20160823_00019.jpg



Trees need to be trimmed on the landside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.39 | Rating ** | M | Issue No. | 65 |
| LM End | 6.46 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.394935 ° | 38.395931 ° |
| | | | | -121.514597 ° | -121.514604 ° |
| DWR ID | DWR_RD0150_02_s_2012_65 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_65_20160823_00038.jpg



View of landscaping along the waterward shoulder and slope looking downstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.42 | Rating ** | M | Issue No. | 34 |
| LM End | 6.42 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.395340 ° | 38.395340 ° |
| | | | | -121.514528 ° | -121.514528 ° |
| DWR ID | DWR_RD0150_02_s_2012_34 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_34_20160823_00021.jpg



Landscaping was found on the waterside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-----------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.48 | Rating ** | M | Issue No. | 42 |
| LM End | 6.48 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.396235 ° | 38.396235 ° |
| | | | | -121.514547 ° | -121.514547 ° |
| DWR ID | DWR_RD0150_02_s_2012_42 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |
| Unpermitted stairway. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_42_20160823_00023.jpg



A stairway was found on the waterside slope of the levee looking upstream.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.50 | Rating ** | M | Issue No. | 1009 |
| LM End | 6.50 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.396449 ° | 38.396449 ° |
| | | | | -121.514516 ° | -121.514516 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50669 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe, 10 feet below the crown. Gate valve on both ends, though only one found on the waterside (WS) in 2013. Pump on the landside (LS) 10 feet from LS toe, not found in 2013. Riser unit on the WS slope has been removed as of the 2016 inspection. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (RM 40.60)]. FS Date: 11/9/2016 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_50669_34985.jpg



WS view: an abandoned and dismantled CMP riser on WS levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.50 | Rating ** | M | Issue No. | 1009 (cont) |
| LM End | 6.50 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.396449 ° | 38.396449 ° |
| | | | | -121.514516 ° | -121.514516 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50669 DS_ID:22413 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/09/2016 Per FPIIB Inspector Pavel Kazi, the CMP riser has been removed and the pipe is now exposed. Pipe still requires proper abandonment. (K. Fazel - UCIP)08/30/2013 Only an abandoned and dismantled CMP riser with gate valve found on WS levee slope. May need proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation pipe, 10 feet below the crown. Gate valve on both ends, though only one found on the waterside (WS) in 2013. Pump on the landside (LS) 10 feet from LS toe, not found in 2013. Riser unit on the WS slope has been removed as of the 2016 inspection. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (RM 40.60)]. FS Date: 11/9/2016 | | | | | |

Photo 2 of 2 : UCIP_FA_2016_50669_34984.jpg



WS view: closer view of an abandoned and dismantled CMP riser on WS levee slope.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.50 | Rating ** | U | Issue No. | 55 |
| LM End | 6.50 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.396518 ° | 38.396518 ° |
| | | | | -121.514530 ° | -121.514530 ° |
| DWR ID | DWR_RD0150_02_f _ 2014_55 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| The pipe gate needs to be covered on the waterside toe of the levee. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_55_20160823_00030.jpg



An open pipe valve was found without a cover on the waterside toe of the levee.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.56 | Rating ** | U | Issue No. | 64 |
| LM End | 6.61 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.397411 ° | 38.398033 ° |
| | | | | -121.514681 ° | -121.514753 ° |
| DWR ID | DWR_RD0150_02_s_2012_64 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_64_20160823_00037.jpg



Landscaping providing a screen for a residence on landside of levee from LM 6.68 to LM 6.72

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.57 | Rating ** | M | Issue No. | 1003 |
| LM End | 6.57 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.397451 ° | 38.397451 ° |
| | | | | -121.514601 ° | -121.514601 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:41720 | | | | | |
| DS_ID:22425 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Need to clear dense vegetation on WS.- water | | | | | |
| filtration plant on LS levee toe.- Slide gate on CMP riser on WS. | | | | | |
| FIELD_STRUCT_DESC: 8-inch pipe through the levee, 12.0 feet below | | | | | |
| the crown, gate valve in CM riser on the waterward slope. Pump at the | | | | | |
| landward toe. (Joe Gomez) | | | | | |
| FS Date: 8/30/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_41720_34081.jpg



WS view: CMP riser with gate valve on levee slope. Dense vegetation on levee slope and stream bank.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.57 | Rating ** | M | Issue No. | 1003 (cont) |
| LM End | 6.57 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.397451 ° | 38.397451 ° |
| | | | | -121.514601 ° | -121.514601 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:41720 DS_ID:22425 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to clear dense vegetation on WS.- water filtration plant on LS levee toe.- Slide gate on CMP riser on WS. FIELD_STRUCT_DESC: 8-inch pipe through the levee, 12.0 feet below the crown, gate valve in CM riser on the waterward slope. Pump at the landward toe. (Joe Gomez) FS Date: 8/30/2013 | | | | | |

Photo 2 of 2 : UCIP_FA_2016_41720_34080.jpg



LS view: concrete vault, pipe, and pump in water filtration plant.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.64 | Rating ** | M | Issue No. | 43 |
| LM End | 6.64 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.398456 ° | 38.398456 ° |
| | | | | -121.514735 ° | -121.514735 ° |
| DWR ID | DWR_RD0150_02_s_2012_43 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Century plant on landside of the levee. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_43_20160823_00024.jpg



Century plants were found on the landside of the levee looking upstream.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.69 | Rating ** | M | Issue No. | 1006 |
| LM End | 6.69 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.399167 ° | 38.399167 ° |
| | | | | -121.514793 ° | -121.514793 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:41646
DS_ID:22426
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: - abandoned very old gate valve also found on WS.
Rest of pipe should be evaluated due to its age.
FIELD_STRUCT_DESC: 9-inch steel irrigation pipe 9.7 feet below the crown, gate valve and pump house on the landside (LS). (Permit No. 8551, 1973 - Souza). O&M Manual SAC 112, March 1957.
FS Date: 8/30/2013

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 6.69 | Rating ** | M | Issue No. | 1006 (cont) |
| LM End | 6.69 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_41646_34102.jpg



WS view: inlet steel pipe on stream bank.

Photo 2 of 2 : UCIP_FA_2016_41646_34101.jpg



WS view: An abandoned old gate valve on inlet steel pipe on stream bank.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.80 | Rating ** | U | Issue No. | 1008 |
| LM End | 6.80 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.400835 ° | 38.400835 ° |
| | | | | -121.515066 ° | -121.515066 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50387 DS_ID:22427 EP_NO: 1703 Repair Type: Urgent Crossing Status: Found UCIP Comments: - significant erosion along pipe alignment on LS slope.- pump on concrete pad- service pole on LS slope. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 4.5 feet below the crown, pump and gate valve on the waterward slope. Service pole and standpipe on the landward shoulder. (App. No. 1703 - M. Silva). Landowner is Craig Silva 916-396-4651, 916-876-6362. Jim Pileman (leasing land and farming it) FS Date: 8/30/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|--------------------|
| LM Start | 6.80 | Rating ** | U | Issue No. | 1008 (cont) |
| LM End | 6.80 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_50387_35002.jpg



WS view: steel pipe, electric conduit, gate valve, and pump on levee slope.

Photo 2 of 2 : UCIP_FA_2016_50387_35001.jpg



WS view: steel inlet pipe in the stream and bank.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.81 | Rating ** | U | Issue No. | 60 |
| LM End | 6.93 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.400936 ° | 38.402613 ° |
| | | | | -121.515173 ° | -121.515863 ° |
| DWR ID | DWR_RD0150_02_s_2012_60 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_60_20160823_00035.jpg



Landscaping providing a screen for a residence on the landside of levee from LM 6.93 to LM 7.05

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 7.00 | Rating ** | U | Issue No. | 1007 |
| LM End | 7.00 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.403513 ° | 38.403513 ° |
| | | | | -121.516162 ° | -121.516162 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50386 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 10.0 feet below the crown, pump on concrete slab and slide gate in CMP riser on the waterward slope. Pipe through the levee section encased in reinforced concrete. A concrete standpipe on landside toe. (A. Monice). Landowner is Steve Winkler 916-599-1052. FS Date: 8/30/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_50386_34162.jpg



WS view: CMP riser with slide gate and pump (right) on levee slope.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 7.00 | Rating ** | U | Issue No. | 1007 (cont) |
| LM End | 7.00 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.403513 ° | 38.403513 ° |
| | | | | -121.516162 ° | -121.516162 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50386 DS_ID:22429 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - soil erosion along pipe alignment on LS slope.- needs more investigation and mitigation for soil erosion. FIELD_STRUCT_DESC: 8-inch steel pipe through the levee 10.0 feet below the crown, pump on concrete slab and slide gate in CMP riser on the waterward slope. Pipe through the levee section encased in reinforced concrete. A concrete standpipe on landside toe. (A. Monice). Landowner is Steve Winkler 916-599-1052. FS Date: 8/30/2013 | | | | | |

Photo 2 of 2 : UCIP_FA_2016_50386_34161.jpg



WS view: steel intake pipe and pump on levee slope. Dense vegetation on levee slope.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.01 | Rating ** | M | Issue No. | 58 |
| LM End | 7.01 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.403631 ° | 38.403631 ° |
| | | | | -121.516299 ° | -121.516299 ° |
| DWR ID | DWR_RD0150_02_s_2012_58 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_58_20160823_00033.jpg



Landscaping providing a screen for a residence on landside of levee at LM 7.12

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 7.22 | Rating ** | A/W | Issue No. | 32 |
| LM End | 7.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.406454 ° | 38.406454 ° |
| | | | | -121.517732 ° | -121.517732 ° |
| DWR ID | DWR_RD0150_02_s_2012_32 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.22 | Rating ** | A | Issue No. | 51 |
| LM End | 7.22 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.406503 ° | 38.406503 ° |
| | | | | -121.517760 ° | -121.517760 ° |
| DWR ID | DWR_RD0150_02_f_2016_51 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Acceptable vegetation. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_51_20161104_00113.jpg



View of landside slope of the levee. Fall 2016

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.77 | Rating ** | M | Issue No. | 41 |
| LM End | 7.77 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.413563 ° | 38.413563 ° |
| | | | | -121.522593 ° | -121.522593 ° |
| DWR ID | DWR_RD0150_02_s_2013_41 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------------|-------|------------|--------------------------|------------|
| Unit No. 02 Sacramento River | Right | 7.81 | 11/01/2016 11/01/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.79 | Rating ** | M | Issue No. | 56 |
| LM End | 7.79 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.413705 ° | 38.413705 ° |
| | | | | -121.522806 ° | -121.522806 ° |
| DWR ID | DWR_RD0150_02_s_ 2012_56 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_16_56_20160823_00031.jpg



Landscaping on landside of levee at LM 7.92

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 0150 Merrit Island

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 03 Elk Slough | | | Left | 9.41 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | M * | |
| Date of Inspection | 3/16/2016 - 3/16/2016 | | 11/3/2016 - 11/3/2016 | |
| DWR Inspector | Pavel Kazi | | Pavel Kazi | |
| Accompanied By | Warren Boggle RD 150 | | | |

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | M | Issue No. | 2 |
| LM End | 9.40 | Issue Type + | Ob | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.332735 ° | 38.413893 ° |
| | | | | -121.583625 ° | -121.522896 ° |
| DWR ID | DWR_RD0150_03_s_2016_2 | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| 1997 - Most of lower Elk Slough contains high near vertical banks, with erosion into the levee slope. Channel almost appears incised. 2002 - Sites where the levee slope is near vertical and severely eroding. It could fail catastrophically. 2004 - Looks bad in terms of vertical slopes and fallen trees. 2005 - Banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2006 - Both banks are still over steepened in most places and potentially susceptible to geotechnical failures. 2010 - The entire reach is in poor condition, with severely eroding near vertical slopes, needs a regional repair. 2011 - Channel banks are still oversteepened with erosion continuing. 2012 - New cracks and animal holes observed. 2015: No observed changes. [2015 Site ID: ELK_0-2_L] | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.11 | Rating ** | M | Issue No. | 936 |
| LM End | 0.11 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.334233 ° | 38.334233 ° |
| | | | | -121.583414 ° | -121.583414 ° |
| DWR ID | DWR_RD0150_03_s_2012_936 | | | | |
| Comment Code | | | | | |
| V4 : Elderberries are blocking visibility and flood fight capability. | | | | | |
| Inspector Comment | | | | | |
| Elderberries are partially blocking visibility. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_936_20160823_00101.jpg



View of elderberry bush within 20 feet of shoulder blocking visibility and access.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.39 | Rating ** | M | Issue No. | 960 |
| LM End | 0.39 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.337928 ° | 38.337928 ° |
| | | | | -121.581496 ° | -121.581496 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:42694 DS_ID:22453 EP_NO: 13612 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned. Proper abandone needs. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope. FS Date: 8/20/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_42694_32005.jpg



WS view: pipe and pump on levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.39 | Rating ** | M | Issue No. | 960 (cont) |
| LM End | 0.39 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : UCIP_FA_2016_42694_32004.jpg



WS view: safety valve on steel pipe.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | M | Issue No. | 959 |
| LM End | 0.40 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.338131 ° | 38.338131 ° |
| | | | | -121.581434 ° | -121.581434 ° |
| DWR ID | | | | | |

Comment Code

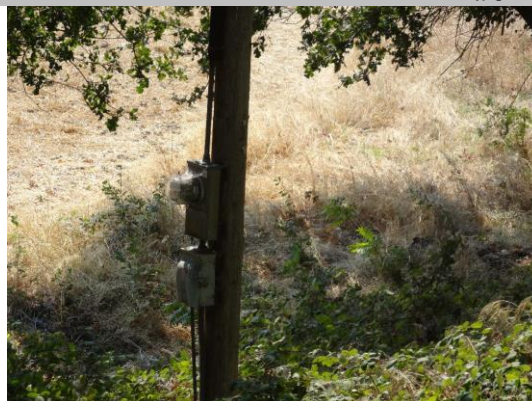
Inspector Comment

FS_ID:42693
DS_ID:22454
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Seems to be abandoned. Service pole on LS slope.

1" conduit through levee. May need proper abandonment.
FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 3.5 feet below the crown. Pump and gate valve on the waterward slope.
FS Date: 8/20/2013

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.40 | Rating ** | M | Issue No. | 959 (cont) |
| LM End | 0.40 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_42693_31979.jpg



LS view: service pole on levee slope.

Photo 2 of 2 : UCIP_FA_2016_42693_31978.jpg



LS view: no pipe on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

View of elderberries on the landward slope of the levee.

Page 4 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.35 | Rating ** | M | Issue No. | 952 |
| LM End | 1.35 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.347489 ° | 38.347489 ° |
| | | | | -121.573302 ° | -121.573302 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:19112
DS_ID:22433
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: No handrail on wooden walkway.
FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 8.0 feet below the crown, pump in pump house on the waterward slope. Service pole and steel distribution box on the landward slope.
FS Date: 8/20/2013

| | | | | | |
|----------|------|--------------|----|------------|------------|
| LM Start | 1.35 | Rating ** | M | Issue No. | 952 (cont) |
| LM End | 1.35 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_19112_32044.jpg



WS view: pipe on levee slope and pump house in channel.

Photo 2 of 2 : UCIP_FA_2016_19112_32043.jpg



WS view: concrete headwall and exposed pipe on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

View of an erosion on the waterside slope of the levee. Fall 2016

Page 6 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.78 | Rating ** | M | Issue No. | 951 |
| LM End | 1.78 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.353180 ° | 38.353180 ° |
| | | | | -121.572907 ° | -121.572907 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:19137 DS_ID:22434 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Small depression on WS slope due to leak from pump. Pipe opens on LS ditch/depression. FIELD_STRUCT_DESC: 10-inch pipe through the levee, 3.4 feet below the crown, pump, gate valve and service pole on the waterward slope. FS Date: 8/20/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_19137_32108.jpg



WS view: exposed pipe and power pole on levee slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.78 | Rating ** | M | Issue No. | 951 (cont) |
| LM End | 1.78 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : UCIP_FA_2016_19137_32107.jpg



WS view: exposed pipe on levee slope.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.78 | Rating ** | M | Issue No. | 50 |
| LM End | 1.78 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.353249 ° | 38.353249 ° |
| | | | | -121.572848 ° | -121.572848 ° |
| DWR ID | DWR_RD0150_03_s_2012_50 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| Stairs are dug next to the pipe. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_50_20160823_00041.jpg



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.83 | Rating ** | M | Issue No. | 85 |
| LM End | 1.83 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.353761 ° | 38.353761 ° |
| | | | | -121.572390 ° | -121.572390 ° |
| DWR ID | DWR_RD0150_03_s_2016_85 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_85_20160823_00078.jpg



View of broken tree trunk on the waterside slope of the levee.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | | |
|--|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 78 (cont) | |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Trim / Thin Trees | | | 38.354286 ° | | 38.354286 ° |
| | | | | -121.564494 ° | | -121.564494 ° |
| DWR ID | DWR_RD0150_03_s_2012_78 | | | | | |
| Comment Code | | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | | |
| Inspector Comment | | | | | | |
| New tree was planted on the landside slope. | | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 78 (cont) |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.31 | Rating ** | M | Issue No. | 78 (cont) |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS |

Photo 2 of 4 : FA_2016_RD0150_17_78_20160823_00070.jpg



View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

Photo 3 of 4 : FA_2016_RD0150_17_78_20160823_00071.jpg



Several newly planted trees were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

Photo 4 of 4 : FA_2016_RD0150_17_78_20160823_00072.jpg



New tree was planted on the landside of the levee looking downstream.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.55 | Rating ** | N | Issue No. | 11 |
| LM End | 2.55 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.356853 ° | 38.356853 ° |
| | | | | -121.561565 ° | -121.561565 ° |
| DWR ID | DWR_RD0150_03_s_2012_11 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_11_20160823_00008.jpg



View of tree stumps on the landward slope.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.65 | Rating ** | C | Issue No. | 86 |
| LM End | 2.65 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.358228 ° | 38.358228 ° |
| | | | | -121.561316 ° | -121.561316 ° |
| DWR ID | DWR_RD0150_03_s_2016_86 | | | | |
| Comment Code | | | | | |
| DE : Debris | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.66 | Rating ** | M | Issue No. | 34 |
| LM End | 2.66 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.358406 ° | 38.358406 ° |
| | | | | -121.561300 ° | -121.561300 ° |
| DWR ID | DWR_RD0150_03_s_2013_34 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_34_20160823_00027.jpg



A pipe was found on the waterside shoulder of the levee looking downstream during spring 2013 inspection.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.80 | Rating ** | M | Issue No. | 35 |
| LM End | 2.80 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.360432 ° | 38.360432 ° |
| | | | | -121.561644 ° | -121.561644 ° |
| DWR ID | DWR_RD0150_03_s_2013_35 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_35_20160823_00028.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.80 | Rating ** | M | Issue No. | 35 (cont) |
| LM End | 2.80 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2016_RD0150_17_35_20160823_00029.jpg



Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.82 | Rating ** | N | Issue No. | 17 |
| LM End | 2.82 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.360621 ° | 38.360621 ° |
| | | | | -121.561762 ° | -121.561762 ° |
| DWR ID | DWR_RD0150_03_s_2012_17 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_17_20160823_00015.jpg



View of tree stumps on the waterward slope.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.15 | Rating ** | N | Issue No. | 20 |
| LM End | 3.15 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.363658 ° | 38.363658 ° |
| | | | | -121.559583 ° | -121.559583 ° |
| DWR ID | DWR_RD0150_03_s_2012_20 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_20_20160823_00016.jpg



View of tree stumps on the waterward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.20 | Rating ** | C | Issue No. | 77 |
| LM End | 3.20 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.363364 ° | 38.363364 ° |
| | | | | -121.558682 ° | -121.558682 ° |
| DWR ID | DWR_RD0150_03_f_2014_77 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.28 | Rating ** | M | Issue No. | 113 |
| LM End | 3.28 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.362992 ° | 38.362992 ° |
| | | | | -121.557275 ° | -121.557275 ° |
| DWR ID | DWR_RD0150_03_f_2013_113 | | | | |
| Comment Code | | | | | |
| PO : Pole | | | | | |
| Inspector Comment | | | | | |
| Unused pole on the landside shoulder of the levee | | | | | |

No Photos

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 3.31 | Rating ** | M | Issue No. | 40 (cont) |
| LM End | 3.31 | Issue Type + | Ob | Location * | WS |

Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

Updated picture of the erosion on the waterside of the levee looking upstream during fall 2014 inspection.

A photograph showing a wide river bend. The left bank is heavily lined with lush green trees and shrubs. In the foreground, a gravel path runs along the bottom of the frame, with a dense patch of green groundcover plants just above it. The water is calm and reflects the overcast sky. The right bank is also lined with trees, receding into the distance.

View of tree stumps on the waterside slope looking upstream.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.39 | Rating ** | U | Issue No. | 962 |
| LM End | 3.39 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.363520 ° | 38.363520 ° |
| | | | | -121.555571 ° | -121.555571 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:50672 DS_ID:22439 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/10/2016 Erosion at LS toe has progressed since last inspection and is now severe. Photo courtesy of Pavel Kazi, FPIIB Inspector, as a part of his Fall 2016 Inspections. Crossing has been upgraded from Non-Urgent to Urgent. (K. Fazel - UCIP)08/20/2013 Leaky concrete standpipe on landside levee toe creating some erosion.- pump was working at the time of inspection. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee, 3.7 feet below the crown. Service pole on the waterside (WS) slope and pump on piling in the stream. Concrete stand pipe on landside (LS) toe. [Additional References: DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (RM 3.45)]. FS Date: 11/10/2016 | | | | | |

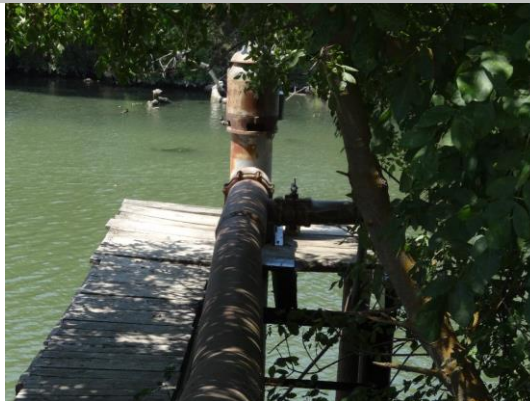
Photo 1 of 2 : UCIP_FA_2016_50672_35013.jpg



WS view: exposed pipe, walkway, service pole on levee slope and pump support in channel.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.39 | Rating ** | U | Issue No. | 962 (cont) |
| LM End | 3.39 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : UCIP_FA_2016_50672_35012.jpg



WS view: steel pipe & pump, walkway, pump support in the channel.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.39 | Rating ** | M | Issue No. | 114 |
| LM End | 3.39 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.363540 ° | 38.363540 ° |
| | | | | -121.555555 ° | -121.555555 ° |
| DWR ID | DWR_RD0150_03_f _ 2013_114 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_114_20160823_00092.jpg



View of steps that were dug on the waterside slope of the levee looking upstream.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.39 | Rating ** | U | Issue No. | 115 |
| LM End | 3.39 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.363540 ° | 38.363540 ° |
| | | | | -121.555554 ° | -121.555554 ° |
| DWR ID | DWR_RD0150_03_f_2013_115 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| Erosion (ditch) was found on the landside toe of the levee. | | | | | |

Photo 1 of 3 : FA_2016_RD0150_17_115_20161104_00145.jpg



Updated picture of the ditch on the landside toe of the levee. Fall 2016

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.39 | Rating ** | U | Issue No. | 115 (cont) |
| LM End | 3.39 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : FA_2016_RD0150_17_115_20160823_00093.jpg



Updated picture of the ditch on the landside toe of the levee during fall 2015 inspection.

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|---|--|---|--|--|--|

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.44 | Rating ** | M | Issue No. | 47 |
| LM End | 3.48 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.364251 ° | 38.364772 ° |
| | | | | -121.555321 ° | -121.555343 ° |
| DWR ID | DWR_RD0150_03_s_2012_47 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_47_20160823_00038.jpg



Landscaping & garden on landward slope of levee at LM 3.50 to LM 3.54.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.51 | Rating ** | C | Issue No. | 42 |
| LM End | 3.51 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.365259 ° | 38.365259 ° |
| | | | | -121.555429 ° | -121.555429 ° |
| DWR ID | DWR_RD0150_03_f_2015_42 | | | | |
| Comment Code | | | | | |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.54 | Rating ** | A | Issue No. | 71 |
| LM End | 3.54 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.365699 ° | 38.365699 ° |
| | | | | -121.555546 ° | -121.555546 ° |
| DWR ID | DWR_RD0150_03_f_2016_71 | | | | |
| Comment Code | | | | | |
| V1 : Control annual grass and weeds on the levee slopes and easements. | | | | | |
| Inspector Comment | | | | | |
| Acceptable vegetation. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_71_20161104_00146.jpg



View of the landside of the levee looking upstream. Fall 2016

| | | | |
|--|--|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 3.66 | Rating ** | M | Issue No. | 963 |
| LM End | 3.66 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.367213 ° | 38.367213 ° |
| | | | | -121.555273 ° | -121.555273 ° |
| DWR ID | | | | | |

Comment Code

Inspector Comment

FS_ID:50202
DS_ID:22440
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 07/07/2016: Unable to locate evidence of major depression of WS slope. Only slight depression on WS slope above pump. Though this is an up-and-over pipe, no positive closure device found. Inlet in LS standpipe is capped with a board. If no longer in use, needs to be abandoned properly. Siphon breaker/vent on WS needs a cover. Wave-wash run-up along river bank characteristic of much of Elk Slough. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)08/20/2013:Levee damage.Gate valve on WS not found. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5.9 feet below the crown. Slant pump on the waterside (WS) slope. Vent/siphon breaker at the apex of the pipe on the WS. A concrete platform lies next to the pump on the WS. Concrete standpipe and service pole with meter at the landside (LS) toe. Property owner is Ken Pylman at 916-775-1066 [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (HLM 3.73)].
FS Date: 7/7/2016

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.66 | Rating ** | M | Issue No. | 963 (cont) |
| LM End | 3.66 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_50202_35018.jpg



WS view: steel pipe and pump on levee slope.

Photo 2 of 2 : UCIP_FA_2016_50202_35021.jpg



WS view: steel pipe with safety valve (marked) on levee slope.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |


Photo 1 of 1 : FA_2016_RD0150_17_116_20161104_00147.jpg



11/03/2016

View of slope instability on the waterside of the levee. Fall 2016


Photo 1 of 1 : FA_2016_RD0150_17_g3_20160823_00086.jpg



09/16/2016

An erosion was found on the waterside toe of the levee.

Photo 1 of 1 : FA_2016_RD0150_17_51_20160823_00045.jpg



Updated picture of the pruning pile on the landside of the levee looking

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.49 | Rating ** | U | Issue No. | 80 |
| LM End | 4.49 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.374355 ° | 38.374355 ° |
| | | | | -121.547436 ° | -121.547436 ° |
| DWR ID | DWR_RD0150_03_s_2014_80 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_80_20160823_00073.jpg



View of an erosion site on the waterside toe of the levee looking upstream.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.49 | Rating ** | M | Issue No. | 94 |
| LM End | 4.49 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.374367 ° | 38.374367 ° |
| | | | | -121.547327 ° | -121.547327 ° |
| DWR ID | DWR_RD0150_03_s_2012_94 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_94_20161104_00148.jpg



View of landscape on the landside shoulder of the levee.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.63 | Rating ** | M | Issue No. | 953 |
| LM End | 4.63 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.374934 ° | 38.374934 ° |
| | | | | -121.545029 ° | -121.545029 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:19281 DS_ID:22444 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - service pole on LS. 1" conduit on WS.- levee toe cut out on landside.- walkway and gate. FIELD_STRUCT_DESC: 10-inch steel irrigation pipe through the levee, 3.8 feet below the crown. Pump on piling in the stream. Concrete standpipe at the landside (LS) toe. [Additional References: DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (RM 4.71)] FS Date: 8/20/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_19281_32541.jpg



WS view: vertical pump on deck.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.63 | Rating ** | M | Issue No. | 953 (cont) |
| LM End | 4.63 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : UCIP_FA_2016_19281_32540.jpg



WS view: 1-inch GI conduit (left) and steel pipe (right)

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.90 | Rating ** | M | Issue No. | 954 |
| LM End | 4.90 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.377718 ° | 38.377718 ° |
| | | | | -121.541413 ° | -121.541413 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:19283 | | | | | |
| DS_ID:22445 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - seems abandoned.- may need proper abandonment | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 7.2 feet below the crown. Gate valve on the landside (LS) end. [Additional References: DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (RM 4.99)] | | | | | |
| FS Date: 8/23/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.90 | Rating ** | M | Issue No. | 954 (cont) |
| LM End | 4.90 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_19283_32565.jpg



WS view: steel pipe on levee slope and in the stream.

Photo 2 of 2 : UCIP_FA_2016_19283_32564.jpg



LS view: abandoned pump set and concrete box on levee slope.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.91 | Rating ** | M | Issue No. | 9 |
| LM End | 4.91 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.377761 ° | 38.377761 ° |
| | | | | -121.541319 ° | -121.541319 ° |
| DWR ID | DWR_RD0150_03_s_2012_9 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_9_20160823_00007.jpg



Equipment on the landside toe of the levee. The picture was taken from crown looking downstream.

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.99 | Rating ** | M | Issue No. | 36 |
| LM End | 4.99 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.378771 ° | 38.378771 ° |
| | | | | -121.540538 ° | -121.540538 ° |
| DWR ID | DWR_RD0150_03_f_2012_36 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_36_20160823_00030.jpg



Updated picture of the slope instability of the waterside shoulder of the levee during fall 2015 inspection.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 4.99 | Rating ** | M | Issue No. | 36 (cont) | |
| LM End | 4.99 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 38.378771 ° | | 38.378771 ° |
| | | | | -121.540538 ° | | -121.540538 ° |
| DWR ID | DWR_RD0150_03_f_2012_36 | | | | | |
| Comment Code | | | | | | |
| S1 : Repair slope instability. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : FA_2016_RD0150_17_36_20160823_00031.jpg



Slope instability was found on the waterside of the levee looking upstream.

| | | | | | |
|--------------------------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.04 | Rating ** | C | Issue No. | 4 |
| LM End | 5.04 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.379456 ° | 38.379456 ° |
| | | | | -121.540147 ° | -121.540147 ° |
| DWR ID | DWR_RD0150_03_s_2012_4 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.05 | Rating ** | M | Issue No. | 81 |
| LM End | 5.05 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.379608 ° | 38.379608 ° |
| | | | | -121.540082 ° | -121.540082 ° |
| DWR ID | DWR_RD0150_03_f_2014_81 | | | | |
| Comment Code | | | | | |
| E2 : Schedule repair of erosion site prior to the next inspection. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_81_20160823_00074.jpg



View of erosion on the waterside of the levee looking downstream.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.05 | Rating ** | M | Issue No. | 95 |
| LM End | 5.05 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.379617 ° | 38.379617 ° |
| | | | | -121.540058 ° | -121.540058 ° |
| DWR ID | DWR_RD0150_03_s _ 2016_95 | | | | |
| Comment Code | | | | | |
| PI : Pipe | | | | | |
| Inspector Comment | | | | | |
| Abandoned pipe was found on the landside slope of the levee. | | | | | |



View of an abandoned pipe on the landside slope of the levee.

| | | | | | |
|-----------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.09 | Rating ** | M | Issue No. | 48 |
| LM End | 5.09 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.380110 ° | 38.380110 ° |
| | | | | -121.540061 ° | -121.540061 ° |
| DWR ID | DWR_RD0150_03_f_2015_48 | | | | |
| Comment Code | | | | | |
| ST : Stairway | | | | | |
| Inspector Comment | | | | | |
| Unpermitted stairway. | | | | | |



View of a stairway on the waterside of the levee.

| | | | | | |
|--|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.14 | Rating ** | M | Issue No. | 941 |
| LM End | 5.14 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 38.380779 ° | 38.380779 ° |
| | | | | -121.540264 ° | -121.540264 ° |
| DWR ID | DWR_RD0150_03_s _ 2012_941 | | | | |
| Comment Code | | | | | |
| C2 : Repair depressions or ruts in the crown or slope. | | | | | |
| Inspector Comment | | | | | |
| There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road. | | | | | |



View of varying elevations in the crown of the levee at the transition from county road to access road.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Reclamation District No. 0150 Merrit Island

Broken tree roots and tree trunks were found on the waterside toe of the levee.

Page 27 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.49 | Rating ** | N | Issue No. | 74 |
| LM End | 5.49 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.383051 ° | 38.383051 ° |
| | | | | -121.545735 ° | -121.545735 ° |
| DWR ID | DWR_RD0150_03_f_2016_74 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| Tree stump and broken tree was found on the waterside shoulder of the levee. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_74_20161104_00150.jpg



View of tree trunks on the waterside shoulder of the levee. Fall 2016

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.51 | Rating ** | M | Issue No. | 12 |
| LM End | 5.51 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.383328 ° | 38.383328 ° |
| | | | | -121.545825 ° | -121.545825 ° |
| DWR ID | DWR_RD0150_03_s_2012_12 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_12_20160823_00009.jpg



Prunings were found on the landside of the levee looking upstream.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 5.51 | Rating ** | M | Issue No. | 12 (cont) |
| LM End | 5.51 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2016_RD0150_17_12_20160823_00010.jpg



Updated picture of pruning pile on the landside toe of the levee looking upstream during the fall 2013 inspection.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.56 | Rating ** | N | Issue No. | 68 |
| LM End | 5.56 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.383697 ° | 38.383697 ° |
| | | | | -121.545201 ° | -121.545201 ° |
| DWR ID | DWR_RD0150_03_s_2012_68 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_68_20160823_00064.jpg



Tree stump was found on the waterside of the levee looking upstream.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.69 | Rating ** | C | Issue No. | 97 |
| LM End | 5.69 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.383958 ° | 38.383958 ° |
| | | | | -121.542830 ° | -121.542830 ° |
| DWR ID | DWR_RD0150_03_s_2016_97 | | | | |
| Comment Code | | | | | |
| PO : Pole | | | | | |
| Inspector Comment | | | | | |
| A broken electrical pole with electric wire was blocking the access on the levee crown. | | | | | |

No Photos

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.69 | Rating ** | N | Issue No. | 41 |
| LM End | 5.69 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.383969 ° | 38.383969 ° |
| | | | | -121.542806 ° | -121.542806 ° |
| DWR ID | DWR_RD0150_03_s_2012_41 | | | | |
| Comment Code | | | | | |
| T5 : Tree stumps. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 5.70 | Rating ** | M | Issue No. | 956 |
| LM End | 5.70 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.383996 ° | 38.383996 ° |
| | | | | -121.542638 ° | -121.542638 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:28265 | | | | | |
| DS_ID:22448 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - levee toe cut out at open end of the pipe.- service pole and control box on river bank. | | | | | |
| FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 7.8 feet below crown. Pump and gate valve on steel platform. Cross fence, wire drag gate. (Permit No. 1167, D. Conner) O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/23/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.70 | Rating ** | M | Issue No. | 956 (cont) |
| LM End | 5.70 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_28265_51974.jpg



WS view: walkway, pipe, pump and support deck on river bank.

Photo 2 of 2 : UCIP_FA_2016_28265_51973.jpg



WS view: electric control box and power pole.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

Reclamation District No. 0150 Merrit Island

View of fence around a horse pen along the shoulder of the levee and the landward slope.

Page 31 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.82 | Rating ** | M | Issue No. | 57 |
| LM End | 5.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.384648 ° | 38.384648 ° |
| | | | | -121.540669 ° | -121.540669 ° |
| DWR ID | DWR_RD0150_03_s_2012_57 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_57_20160823_00050.jpg



View of a tree trunk lying on the landward slope blocking visibility.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.83 | Rating ** | U | Issue No. | 58 |
| LM End | 5.83 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.384803 ° | 38.384803 ° |
| | | | | -121.540545 ° | -121.540545 ° |
| DWR ID | DWR_RD0150_03_s_2012_58 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| Permit 7517-A covers this area, but more research is needed. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_58_20160823_00051.jpg



Building & associated landscaping on levee crown.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.91 | Rating ** | M | Issue No. | 21 |
| LM End | 5.98 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.385752 ° | 38.386703 ° |
| | | | | -121.539905 ° | -121.540042 ° |
| DWR ID | DWR_RD0150_03_s_2012_21 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_21_20160823_00017.jpg



Landscaping was found on the landside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.95 | Rating ** | C | Issue No. | 33 |
| LM End | 5.95 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.386351 ° | 38.386351 ° |
| | | | | -121.539828 ° | -121.539828 ° |
| DWR ID | DWR_RD0150_03_s_2012_33 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 5.95 | Rating ** | M | Issue No. | 955 |
| LM End | 5.95 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.386402 ° | 38.386402 ° |
| | | | | -121.539834 ° | -121.539834 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:19403 | | | | | |
| DS_ID:22451 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: - pipe ends open on both sides of the levee.- | | | | | |
| abandoned concrete box on WS.- two abandoned steel pipes (6" and | | | | | |
| 1") also found on WS. - needs proper abandonment | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the | | | | | |
| levee, 2.5 feet below the crown. Power pole on the landward slope. (W. | | | | | |
| Bogle). O&M Manual SAC 112, March 1957. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_19403_32942.jpg



WS view: open ended 6" steel pipe (top-left), 1" steel pipe (bottom), and another 6" steel pipe (right) on levee slope.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

Reclamation District No. 0150 Merrit Island

Reclamation District No. 0150 Merrit Island

No Photos

Oleander on landward slope blocking view of levee.

View of tree stumps on the waterward slope.

Page 35 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.23 | Rating ** | M | Issue No. | 25 |
| LM End | 6.25 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.389700 ° | 38.389808 ° |
| | | | | -121.541462 ° | -121.541285 ° |
| DWR ID | DWR_RD0150_03_s_2012_25 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.25 | Rating ** | M | Issue No. | 99 |
| LM End | 6.25 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.389857 ° | 38.389857 ° |
| | | | | -121.541193 ° | -121.541193 ° |
| DWR ID | DWR_RD0150_03_s_2016_99 | | | | |
| Comment Code | | | | | |
| TR : Tree or limb | | | | | |
| Inspector Comment | | | | | |
| Newly planted tree on the landside slope of the levee. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_99_20160823_00091.jpg



View of newly planted tree on the landside slope of the levee.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.25 | Rating ** | U | Issue No. | 26 |
| LM End | 6.29 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.389858 ° | 38.390115 ° |
| | | | | -121.541155 ° | -121.540657 ° |
| DWR ID | DWR_RD0150_03_s_2012_26 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_26_20160823_00019.jpg



Landscaping on landward slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

No Photos

View of landscaping along the landward slope.

Slope instability was found on the waterside of the levee looking downstream.

Page 37 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.52 | Rating ** | M | Issue No. | 83 |
| LM End | 6.52 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.392580 ° | 38.392580 ° |
| | | | | -121.538059 ° | -121.538059 ° |
| DWR ID | DWR_RD0150_03_f_2014_83 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_83_20160823_00076.jpg



Prunings were found on the landside toe of the levee looking upstream.

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.63 | Rating ** | M | Issue No. | 958 |
| LM End | 6.63 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.394182 ° | 38.394182 ° |
| | | | | -121.538609 ° | -121.538609 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:42692 | | | | | |
| DS_ID:22457 | | | | | |
| EP_NO: 14650 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Appears abandoned and if so should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee, 5 feet below the crown. Concrete distribution box on landside levee toe. | | | | | |
| Diesel powered slant pump on water side. (Permit No. 14650 - Webber) | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2016_42692_35082.jpg



WS view: steel pipe (right) and diesel pump on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|-------------|
| LM Start | 6.82 | Rating ** | M | Issue No. | 13 |
| LM End | 6.93 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.395998 ° | 38.395470 ° |
| | | | | -121.536613 ° | ° |
| DWR ID | DWR_RD0150_03_s_2012_13 | | | | |
| Comment Code | | | | | |
| FE : Fence | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_13_20160823_00013.jpg



Fence was found on the landside of the levee looking downstream.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.85 | Rating ** | U | Issue No. | 933 |
| LM End | 6.93 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.396187 ° | 38.396989 ° |
| | | | | -121.536180 ° | -121.535151 ° |
| DWR ID | DWR_RD0150_03_s_2012_933 | | | | |
| Comment Code | | | | | |
| V6 : Landscaping | | | | | |
| Inspector Comment | | | | | |
| Landscaping has been maintained better, but some obstructions still exist. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_933_20160823_00097.jpg



View of the landscape on the landside shoulder of the levee looking downstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

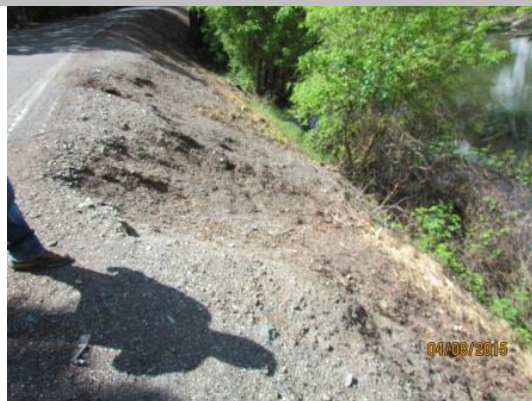
Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.90 | Rating ** | M | Issue No. | 61 |
| LM End | 6.90 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.396655 ° | 38.396655 ° |
| | | | | -121.535485 ° | -121.535485 ° |
| DWR ID | DWR_RD0150_03_s_2012_61 | | | | |
| Comment Code | | | | | |
| E1 : Note and monitor erosion site. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_61_20160823_00054.jpg



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 6.90 | Rating ** | M | Issue No. | 61 (cont) |
| LM End | 6.90 | Issue Type + | Ob | Location * | WS |

Photo 2 of 2 : FA_2016_RD0150_17_61_20160823_00055.jpg



Erosion was found on the waterside slope of the levee looking downstream. This updated picture was taken during fall 2012 inspection.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.91 | Rating ** | M | Issue No. | 79 |
| LM End | 6.91 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 38.396698 ° | 38.396698 ° |
| | | | | -121.535406 ° | -121.535406 ° |
| DWR ID | DWR_RD0150_03_f_2012_79 | | | | |
| Comment Code | | | | | |
| T2 : Thin trees to allow visibility of the ground and room to flood fight. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

Reclamation District No. 0150 Merrit Island

Landscaping on the waterside of the levee. The picture was taken from the crown looking upstream.

Page 42 of 56

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 7.29 | Rating ** | U | Issue No. | 32 (cont) |
| LM End | 7.34 | Issue Type + | En | Location * | LS |

A photograph showing a dirt road or path. On the left side of the road, there is a large, messy pile of cut grass and brush. The background is filled with a dense line of trees and foliage. The road surface appears wet or muddy.

| | | | | | | | | | | |
|-------------------|---------------------------|--------------|----|------------------------|---------------|--|--|--|--|--|
| LM Start | 7.38 | Rating ** | N | Issue No. | 63 | | | | | |
| LM End | 7.38 | Issue Type + | Ma | Location * | LS | | | | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | | | | |
| | | | | Start | End | | | | | |
| Item | Trim / Thin Trees | | | 38.402779 ° | 38.402779 ° | | | | | |
| | | | | -121.538197 ° | -121.538197 ° | | | | | |
| DWR ID | DWR_RD0150_03_s _ 2012_63 | | | | | | | | | |
| Comment Code | | | | | | | | | | |
| T5 : Tree stumps. | | | | | | | | | | |
| Inspector Comment | | | | | | | | | | |
| | | | | | | | | | | |

A photograph showing a grassy area with a large evergreen tree in the background. In the foreground, there is some low-lying vegetation, including a small bush and some yellow flowers. The ground appears to be a mix of grass and bare soil.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Reclamation District No. 0150 Merrit Island

Landscaping was blocking the visibility on the landside of the levee looking downstream.

Page 44 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.47 | Rating ** | M | Issue No. | 935 |
| LM End | 7.47 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.403795 ° | 38.403795 ° |
| | | | | -121.539205 ° | -121.539205 ° |
| DWR ID | DWR_RD0150_03_s_2012_935 | | | | |
| Comment Code | | | | | |
| PR : Prunings | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 7.47 | Rating ** | M | Issue No. | 935 (cont) |
| LM End | 7.47 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : FA_2016_RD0150_17_935_20160823_00099.jpg



Prunings were found on the landside of the levee looking upstream.

Photo 2 of 2 : FA_2016_RD0150_17_935_20160823_00100.jpg



Prunings were found on the landside of the levee looking upstream. This picture was taken during fall 2011 inspection.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.68 | Rating ** | M | Issue No. | 16 |
| LM End | 7.68 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.405342 ° | 38.405342 ° |
| | | | | -121.542553 ° | -121.542553 ° |
| DWR ID | DWR_RD0150_03_s_2012_16 | | | | |
| Comment Code | | | | | |
| BU : Building | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_16_20160823_00014.jpg



Equipment and buiding was found on the landside of the levee looking upstream.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 0150 Merrit Island

Slope instability was found on the waterside toe of the levee looking upstream.

Page 46 of 56

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 7.91 | Rating ** | M | Issue No. | 87 |
| LM End | 7.91 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.408342 ° | 38.408342 ° |
| | | | | -121.541580 ° | -121.541580 ° |
| DWR ID | DWR_RD0150_03_s_2012_87 | | | | |
| Comment Code | | | | | |
| MA : Material | | | | | |
| Inspector Comment | | | | | |
| A concrete or anchor block was found on the slope of the levee. | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_87_20160823_00080.jpg



A concrete block was found on the waterside of the levee looking upstream.

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.02 | Rating ** | M | Issue No. | 92 |
| LM End | 8.02 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 38.409130 ° | 38.409130 ° |
| | | | | -121.539971 ° | -121.539971 ° |
| DWR ID | DWR_RD0150_03_s_2014_92 | | | | |
| Comment Code | | | | | |
| S1 : Repair slope instability. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_92_20160823_00084.jpg



Updated picture of the slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

Photo 2 of 2 : FA_2016_RD0150_17_92_20160823_00085.jpg



A slope instability was found on the waterside of the levee looking downstream.

Photo 1 of 1 : FA_2016_RD0150_17_53_20160823_00047.jpg



View of a pipe on the waterside of the levee.

Photo 1 of 1 : FA_2016_RD0150_17_82_20160823_00075.jpg



Prunings were found on the landside toe of the levee looking upstream.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|--|
| LM Start | 8.20 | Rating ** | U | Issue No. | 961 | |
| LM End | 8.20 | Issue Type + | En | Location * | LS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 38.408619 ° | 38.408619 ° | |
| | | | | -121.536768 ° | -121.536768 ° | |
| DWR ID | | | | | | |
| Comment Code | | | | | | |
| | | | | | | |
| Inspector Comment | | | | | | |
| FS_ID:50670 | | | | | | |
| DS_ID:22466 | | | | | | |
| EP_NO: N/A | | | | | | |
| Repair Type: Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: 07/08/2016: Needs proper abandonment. Levee caved in below pipe at gate valve on WS. Discussed abandonment with Warren Bogle of Colby Ranch. (K. Fazel - UCIP)08/23/2013: Needs proper abandonment (P. Amatya - DWR) | | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation pipe through the levee, 13.8 feet below the crown. Gate valve on the waterside (WS) slope. Pilings in water but no pump found. Service pole with guy wire on the landside (LS) slope. Standpipe on LS slope. | | | | | | |
| [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 112, March 1957 (HLM 8.34)]. | | | | | | |
| FS Date: 7/7/2016 | | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 8.20 | Rating ** | U | Issue No. | 961 (cont) |
| LM End | 8.20 | Issue Type + | En | Location * | LS |

Photo 1 of 2 : UCIP_FA_2016_50670_33627.jpg



WS view: pipe visible on levee slope and in the stream.

Photo 2 of 2 : UCIP_FA_2016_50670_33626.jpg



WS view: abandoned gate valve found on levee slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

Photo 1 of 1 : FA_2016_RD0150_17_65_20160823_00060.jpg



View of erosion on the waterside of the levee.

Photo 1 of 1 : FA_2016_RD0150_17_66_20160823_00061.jpg



Updated picture of the erosion on the waterside of the levee.

Photo 1 of 2 : FA_2016_RD0150_17_67_20160823_00062.jpg



Updated picture of the erosion on the waterside shoulder looking upstream during spring 2014 inspection.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | | |
|-------------------------------------|-------------------------|--------------|----|------------------------|-----------|---------------|
| LM Start | 8.33 | Rating ** | U | Issue No. | 67 (cont) | |
| LM End | 8.33 | Issue Type + | Ob | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 38.407958 ° | | 38.407958 ° |
| | | | | -121.534583 ° | | -121.534583 ° |
| DWR ID | DWR_RD0150_03_s_2012_67 | | | | | |
| Comment Code | | | | | | |
| E1 : Note and monitor erosion site. | | | | | | |
| Inspector Comment | | | | | | |
| | | | | | | |

Photo 2 of 2 : FA_2016_RD0150_17_67_20160823_00063.jpg



Erosion was found on the waterside shoulder of the levee looking upstream. This picture was taken during fall 2012 inspection.

| | | | | | |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.37 | Rating ** | M | Issue No. | 88 |
| LM End | 8.37 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.408155 ° | 38.408155 ° |
| | | | | -121.533982 ° | -121.533982 ° |
| DWR ID | DWR_RD0150_03_s_2012_88 | | | | |
| Comment Code | | | | | |
| PO : Pole | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.37 | Rating ** | U | Issue No. | 89 |
| LM End | 8.37 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.408153 ° | 38.408153 ° |
| | | | | -121.533980 ° | -121.533980 ° |
| DWR ID | DWR_RD0150_03_s_2012_89 | | | | |
| Comment Code | | | | | |
| A1 : Exterminate rodents and backfill and compact or grout burrows. | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2016_RD0150_17_89_20160823_00081.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during spring 2015 inspection.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 8.37 | Rating ** | U | Issue No. | 89 (cont) |
| LM End | 8.37 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2016_RD0150_17_89_20160823_00082.jpg



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 8.37 | Rating ** | M | Issue No. | 957 |
| LM End | 8.37 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.408188 ° | 38.408188 ° |
| | | | | -121.533935 ° | -121.533935 ° |
| DWR ID | | | | | |
| Comment Code | | | | | |
| | | | | | |
| Inspector Comment | | | | | |
| FS_ID:41648 DS_ID:22467 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - walkway in poor functional condition- an abandoned 8-inch steel pipe next to 12" pipe. This 8" pipe might have merged with 12" pipe under the levee .- Pipe and pump inside concrete masonry wall. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 13.0 feet below the crown, pump and gate valve in pump house on the waterward slope. Concrete distribution box at the landward toe. Service pole on the waterward shoulder. O&M Manual SAC 112, March 1957. FS Date: 8/23/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 8.37 | Rating ** | M | Issue No. | 957 (cont) |
| LM End | 8.37 | Issue Type + | En | Location * | WS |

Photo 1 of 2 : UCIP_FA_2016_41648_33642.jpg



WS view: walkway and inlet pipe on levee slope.

Photo 2 of 2 : UCIP_FA_2016_41648_33641.jpg



WS view: pump, gate valve, and airvent on pipe inside concrete masonry box.

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

Levee Inspection Report By Mile - Fall 2016

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|---------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

No Photos

Photo 1 of 1 : FA_2016_RD0150_17_90_20160823_00083.jpg



A tree stump was found on the landside of the levee looking upstream.

Photo 1 of 1 : FA_2016_RD0150_17_55_20160823_00048.jpg



A tree stump was found on the waterside of the levee looking upstream.

| * Location | ** Rating | + Issue Type |
|--|---|-----------------------------------|
| LS : Land Side N/A : Not Applicable | A : Acceptable N : Not Inspected/Rated | Ma : Maintenance Deficiency |
| WS : Water Side | M : Minimally Acceptable C : Corrected | Ob : Design & System Obsolescence |
| CR : Crown | U : Unacceptable A/W : Acceptable but Monitor & Maintain | En : Enforcement |

Reclamation District No. 0150 Merrit Island

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|------------------------|------|------------|--------------------------|------------|
| Unit No. 03 Elk Slough | Left | 9.41 | 11/03/2016 11/03/2016 | Pavel Kazi |

| | | | | | |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 9.39 | Rating ** | M | Issue No. | 950 |
| LM End | 9.39 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.413560 ° | 38.413560 ° |
| | | | | -121.522936 ° | -121.522936 ° |
| DWR ID | DWR_RD0150_03_s_2012_950 | | | | |
| Comment Code | | | | | |
| EQ : Equipment | | | | | |
| Inspector Comment | | | | | |
| | | | | | |

Photo 1 of 1 : FA_2016_RD0150_17_950_20160823_00103.jpg



Equipment was found on the landside of the levee looking downstream.

| | | |
|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|